

Operating instructions for worm box (IW)

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Note:



Notes contain important information.

Warning:



Warnings indicate special methods or handling procedures which, if not followed properly, may result in serious injury.

Operating instructions for worm box (IW)

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1 General

This range of gearboxes is supplied to suit the order requirements but, unless specifically requested at the ordering stage, the output sleeve will be supplied blank and must be machined to suit the equipment to be operated.

The sleeve can be easily removed from the top of the gearbox by first removing the indicator plate retaining bolts. These bolts are either serrated under head or are fitted with serrated washers. When refitting the bolts, they must be tightened to the correct torque figures as shown under the indicator plate.

2 MOUNTING TO THE VALVE

If the gearbox has been supplied with a handwheel, it is recommended that this be fitted to the gearbox before mounting on the valve. This will make it easier to rotate the gearing to pick up the key location.

If an electric actuator is fitted to the gearbox, a suitable input adaptor will have been supplied. After mounting the actuator to the gearbox, the limit and torque switch settings must be made in accordance with the manufacturer's instructions.

It is essential that the gearbox baseplate is flush with the valve bonnet flange before the mounting screws are tightened.

Flanges to be sealed on assembly with silicon sealant.

NB. Mounting screws or studs/nuts must be high tensile steel (Grade 8.8 or higher)

3 HANDLING

Combined valve and gearbox must **NOT** be slung from the gearbox.

4 MAINTENANCE

All gear cavities are lubricated for life. Under normal operating conditions, no maintenance is required for the gearbox. Should the valve be taken out of service for overhaul, the gearbox baseplate may be removed and the lubricant changed using one of the following greases. The baseplate must be sealed using silicone sealant on re-assembly, unless fitted with o-rings.

IW RANGE

<i>Manufacturer</i>	<i>Name</i>	<i>Temperature Range</i>
Fuchs	Renolit CL-X2	-54°C to +120°C
Shell	Alvania EP1	-15°C to +90°C
Esso	Beacon EP2	-30°C to +125°C

MOW RANGE

<i>Manufacturer</i>	<i>Name</i>	<i>Temperature Range</i>
Fuchs	Renolit LST 0	-20°C to +120°C

MTW RANGE

<i>Manufacturer</i>	<i>Name</i>	<i>Temperature Range</i>
Fuchs	Renolit EPLITH 00	-10°C to +120°C

An equivalent extreme pressure lubricant may be used.

For extreme temperature applications, please consult the factory.